

# **PHMSA State Damage Prevention (SDP) Grants**

Deb Hofbauer  
Director, IT  
VA811

# 2015 PHMSA SDP Grant

- CBT
  - Joint effort with SCC & multiple stakeholders

# CBT Stats – Option 2 – Training with Exam

- 3,957 registered accounts
- 254 companies represented

# 2017 PHMSA SDP Grant

- Enhanced CBT
  - PHMSA Grant awarded
    - Spanish version
    - Additional modules
    - Enhanced reporting

## 2016 PHMSA SDP Grant

- Discussions during a CGA Conference led to the pursuit of the State Damage Prevention Grant application to bring the Proof of Concept Project into the U.S.
  - The application was piloted with Enbridge in Canada and is currently being used

# Proof of Concept

- Receive and display One Call ticket information
- Render existing surface and subsurface assets
- Capture of locate data
- Take geo-tagged photos, mark and annotate photos and share photos
- Render actual locate data (with precision and pedigree) from the field
- Manage Asset Data
- Send communications to stakeholders and manage Public Awareness Program

# Roanoke Gas Proof of Concept

- Focus on Loop Line
  - Roanoke Gas adding 1100 feet
- VA811 created a test member code around the loop
- Roanoke Gas Locators will test using tickets received by the test code
  - Locate lines
  - Upload photos
  - Online Forms



# Roanoke Gas Facility Map

dhoibauer

Thu, 30 Jun 2016 14:57:41 GMT

Geolocation Services ☐ OFF

Zoom to Coordinate (GPS Lat, Long)

[Main Dashboard](#)

[Administration](#)

[Roanoke Gas](#)

[Field Data Collection](#)

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Select Area Category

Select Area Table

Select Data Fields

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Layer Control Clear All

Base Layers

Roanoke Gas

Roanoke Gas Layers

☐ RG Gas Service

☒ RG Gas Mains

☐ RG Gas Valve

☐ RG Regulator Station

☐ RG Townborder Station

VA811 Layers

☐ RG VA811 Grid

☒ RG Buffer

☐ RG Parcels

☐ RG Address Points

☒ RG Roads

☐ RG Places

One Call

☒ Live Ticket Transmission

Field Data Collection

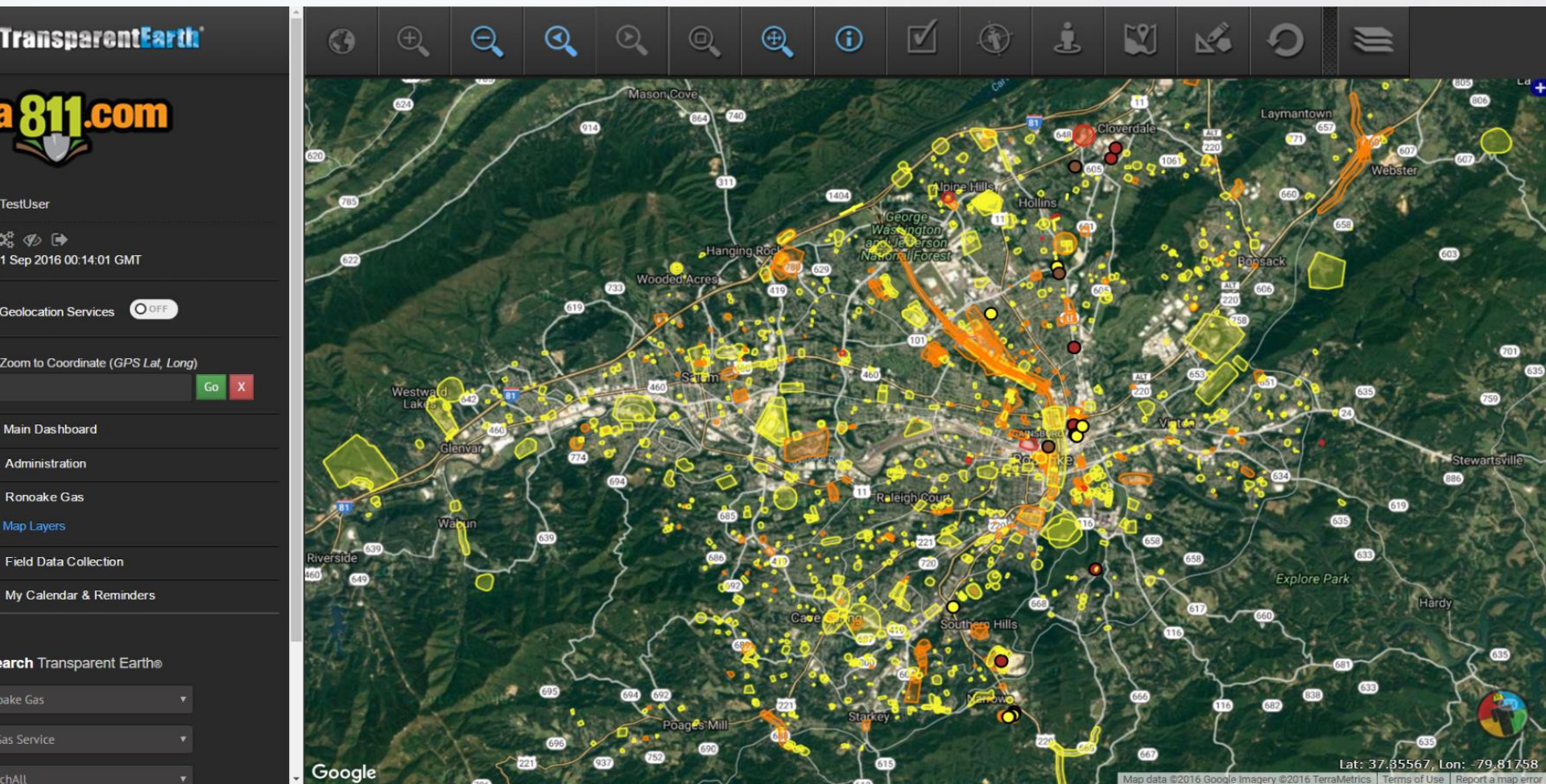
Open Web Map Services

Lat: 37.33681, Lon: -79.57358

Map data ©2016 Google Imagery ©2016 TerraMetrics | Terms of Use | Report a map error



# Roanoke Gas Map with Active Tickets





# Ticket Information

The screenshot displays the TransparentEarth web application interface. The main map area shows a satellite view of a region with overlaid green and yellow polygons representing gas service areas. A blue rectangle highlights a specific area on the map. An information popup window is open over this area, displaying details for a selected record.

**TransparentEarth**

**va811.com**

dhofbauer

Thu, 30 Jun 2016 15:10:23 GMT

Geolocation Services ☐ OFF

Zoom to Coordinate (GPS Lat, Long)

Main Dashboard

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Select Data Fields

Search Clear

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**Info**

**RGC One Call Tickets:** Selected Record: 2

|                                 |   |
|---------------------------------|---|
| Ticket_Method:                  |   |
| One_Call_Center_Guid:           | c29ca9d3-b7a2-4890-8dbd-ebac0566b511                            |
| One_Call_Center:                | VA811 One Call  |
| Prepared_By:                    |   |
| FTP_File_Name_Or_Email_Subject: | VUPS PROSTARRGC 2016/06/29 #00030B B618101109-00B NORM NEW LREQ |
| Contact_ID:                     | TONY EKINCI   |
| Ticket_Type:                    | NEW   |
| Call_Date_Time:                 | 2016-06-29T15:59:59Z  |
| One_Call_Ticket_Number:         | B618101109  |
| Sequence_Number:                | 30  |
|                                 | NaN   |

Close

Layer Control Clear All

- Base Layers
- Roanoke Gas
- Roanoke Gas Layers
  - ☐ RG Gas Service
  - ☒ RG Gas Mains
  - ☐ RG Gas Valve
  - ☐ RG Regulator Station
  - ☐ RG Townborder Station
- VA811 Layers
  - ☐ RG VA811 Grid
  - ☒ RG Buffer
  - ☐ RG Parcels
  - ☒ RG Address Points
  - ☒ RG Roads
  - ☐ RG Places
- One Call
  - ☒ Live Ticket Transmission
- Field Data Collection
- Open Web Map Services

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Lat: 37.44612, Lon: -79.93407

**Ticket showing the located underground infrastructure (yellow lines) with photographs attached (yellow circles) within Transparent Earth**





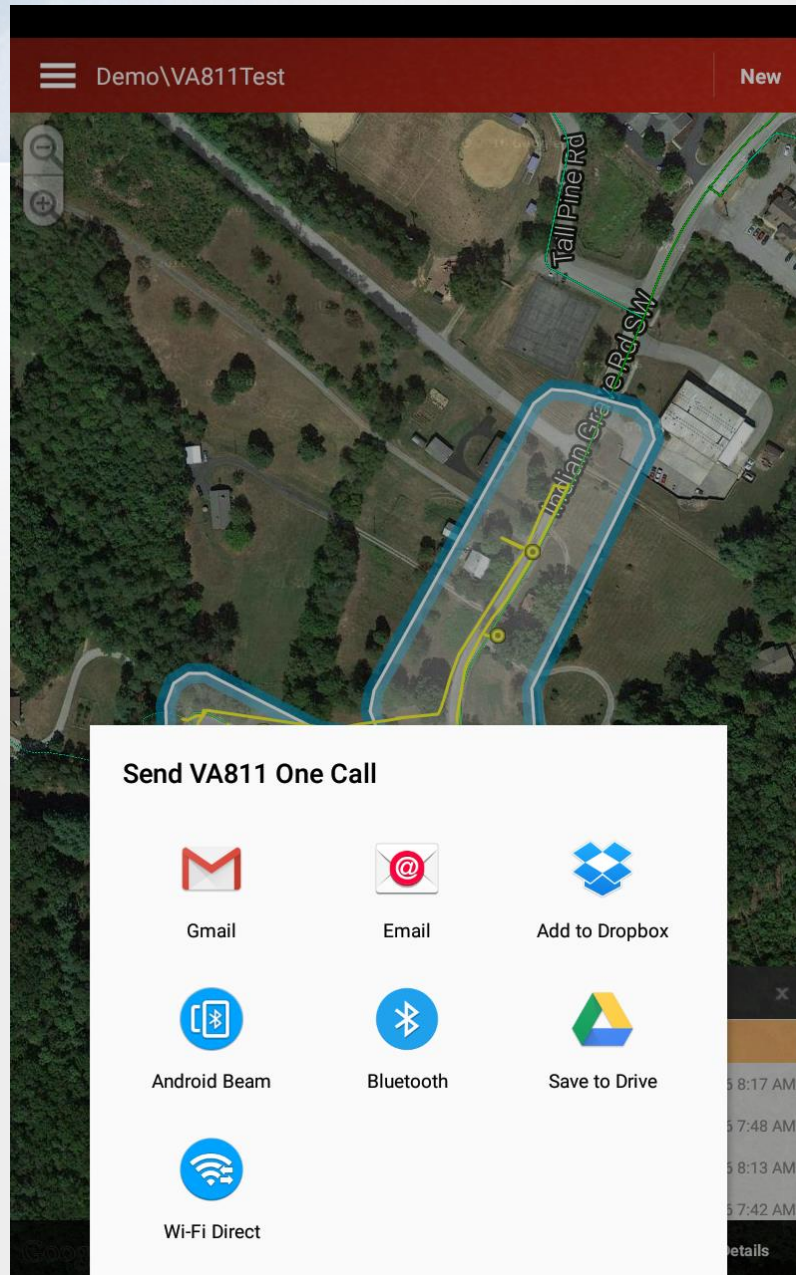
**Once the underground utility is located and photographs are captured in Transparent Earth, selections of items to send to excavators and operators are done through the drop box tool within the application:**



☐ Check None

Cancel

**Transparent Earth application provides multiple formats to send collected information on the one-call ticket depicting the located underground infrastructure and attached images.**















# Ticket Locate and Attachments

To



Subject PointMan VA811 One Call

 5 items (8.5 MB/52.6 MB) DELETE ALL 

|   |                         |         |   |
|---|-------------------------|---------|---|
|  | E_IMG_1468419990148.jpg | 1.2 MB  |  |
|  | E_IMG_1468419444960.jpg | 1014 KB |  |
|  | E_IMG_1468419672254.jpg | 967 KB  |  |
|  | E_IMG_1468417174266.jpg | 1.1 MB  |  |
|  | doc.kmz                 | 4.3 MB  |  |

VA811 One Call

Properties

One Call Center: VA811 One Call

FTP File Name Or Email Subject: VUPS PROSTARRGC 2016/08/22 #00003A

A623500024-00A NORM UPDT LREQ

Contact ID: PAUL SCHNEIDER

Ticket Type: UPDT

One Call Ticket Number: A623500024

Sequence Number: 3

Revision: 00A

Type Of Work: GAS MAIN - REPAIR, REPLACE OR ABANDON

Last Request Number: A621600100

Caller Type: UTIL

Caller: THELMA SHREWSBURY

Caller Phone: 5407773819

Caller Email: thelma\_shrewsbury@roanokegas.com

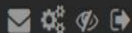
Work For: ROANOKE GAS CO

Excavator Name: ROANOKE GAS CO



# Precision and Pedigree of Locate Information

VA811TestUser



Tue, 13 Sep 2016 17:34:26 GMT

Geolocation Services ☐ OFF

Zoom to Coordinate (GPS Lat, Long)

Go X

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Select Area Category

Select Area Table

☒ Pedigree

< Prev | Next >

### Precision & Pedigree Data

|            |                        |
|------------|------------------------|
| Locator:   | vLocPro                |
| Depth:     | 1.414 m                |
| Current:   | 1 mA                   |
| Frequency: | 32768 Hz               |
| Direction: | Flashing               |
| Rcvr Type: | BlueStar GNSS 18301392 |
| GPS Date:  | 7/13/2016              |
| GPS Time:  | 07:56                  |
| Accuracy:  | 0.312861 m             |
| Horz Prec: | 0.7 hdrop              |
| Fix Type:  | DGPS                   |
| DGPS Acc:  | < 0                    |

Close

Google

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Lat: 37.20157, Lon: -79.94915

# Customized Public Awareness Form

Public Awareness Form

|               |                               |
|---------------|-------------------------------|
| Project Name: | 2016 Public Awareness Program |
| AFE:          | 12343                         |
| Date:         | 9/3/2016                      |
| Contractor:   |                               |
| Inspector:    |                               |

Details

|                   |                      |
|-------------------|----------------------|
| Location:         | 098.01-01-06.00-0000 |
| Mile Post:        |                      |
| Person Contacted: | James Smith          |
| Address:          | 5344 Indian Grave Rd |
| Phone Number:     | (540) 123-4567       |
| Category:         | Resident Landowner   |

Information Provided

|                                     |   |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Handed out educational material   |
| <input checked="" type="checkbox"/> | Discussed responsibility and resources available of response agency and acquainted official with our ability in responding to an emergency release and means of communication |
| <input checked="" type="checkbox"/> | Handed out Emergency Telephone number memento   |

Confirmation

|            |  |
|------------|--|
| Employee:  | Steve James  |
| Signature: |  |

# Statistics from Project

- Average of 1,330 locate tickets per month captured
- 46 lines located
  - 46 Gas
  - 1 Telecom
  - 1 Drainage
- 54 Points Created
  - 13 Photos captured
  - 31 form documents
  - 3 file documents
  - 5 gas valves
  - 1 cathodic protection
  - 1 gas, other



# Future of this technology

- In development
  - 3 dimensional view of a pipeline
  - Drill down layers of data within the single portal



# Questions????

